

Virginia Health Information

from numbers to KNOWLEDGE:

An Overview

Michael T. Lundberg
Executive Director



www.vhi.org

Background on 1996 Health Care Data Reporting Legislation

§ 32.1-276.2

- *The General Assembly finds that the establishment of effective health care data analysis and reporting initiatives is essential to the improvement of the quality and cost of health care in the Commonwealth, and that accurate and valuable health care data can best be identified by representatives of state government and the consumer, hospital, nursing home, physician, insurance, and business communities.*

Role of Independent Nonprofit in Health Care Reporting

§ 32.1-276.4

Information is to be developed under the auspices of a nonprofit organization representing all health care stakeholders, nominated by those stakeholders and contracted with by the Virginia Department of Health

VHI's Mission

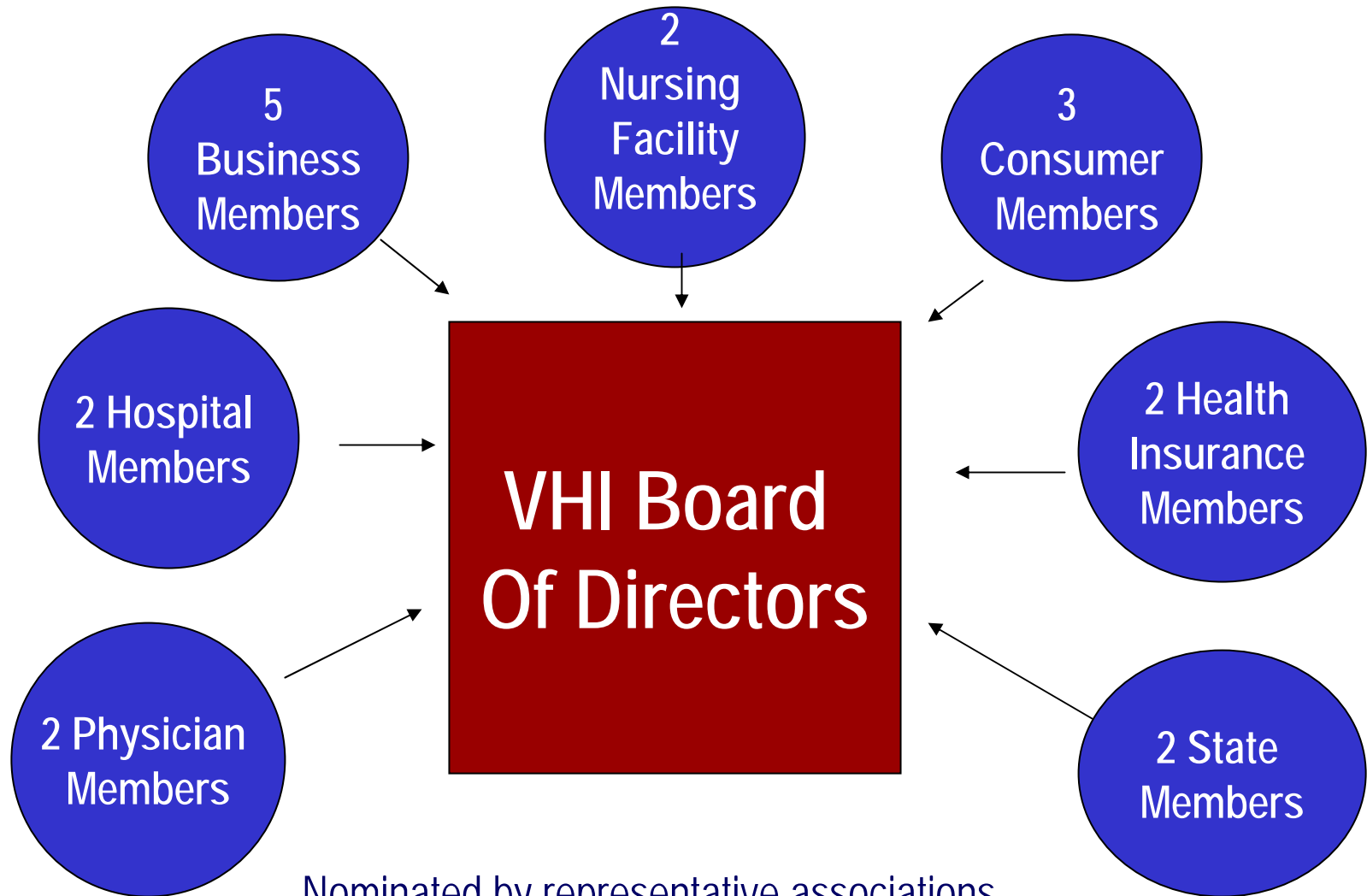


- To create and disseminate health care information
- To promote informed decision making by Virginia consumers, business and
- To enhance the quality of health care delivery

VHI's Organization

- Public/private partnership formed in 1993
- VHI is state-recognized source to collect, analyze and disseminate Virginia health care data
- Works through contracts with State Health Commissioner, private contracts, sales and services





“Health Data from Many Sources for Many Needs”

- **Hospital Discharge Data:** 860,000 discharges per year from 90+ hospitals
- **EPICS:** financial and operational information from 370+ ambulatory surgical centers, hospitals, nursing homes
- **Outpatient Surgical Data:** for 7 procedure groups from ambulatory surgery centers, hospitals and physicians
- **HMO Data:** from SCC and National Committee on Quality Assurance-Quality, \$\$, Process measures, Satisfaction
- **Long-term Care Data:** Adult day care, Assisted Living, Continuing Care Retirement Communities, Home care, Nursing facilities
- Hospital and other facility **Licensure Data**

Patient Level Data System

- Uses existing hospital billing forms
- Contains more than 115 data fields
- Reports on 800,000+ annual discharges
- Describes care provided, charges and those providing treatment

Used by

- *Consultants/Vendors*
- *Employers*
- *Health Plans*
- *Health planners*
- *Health Services Researchers*
- *Hospitals*

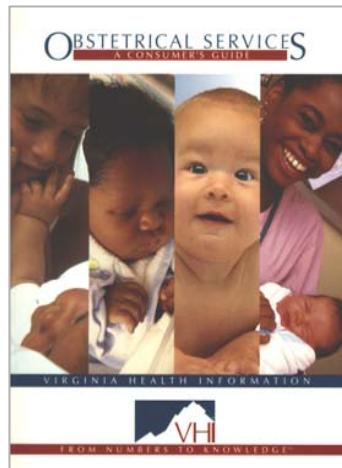
Underlying Data in Consumer Guide to Hospitals, Obstetrical Services, Cardiac Care, Industry Report Service Lines, CODES

EPICS-Measures Provider Efficiency and Productivity

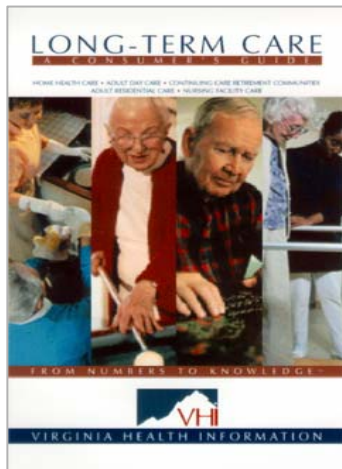
- Financial and Operational Data
 - Ambulatory Surgical Centers, Hospitals, Nursing Homes, Psychiatric and Rehabilitation Hospitals
 - Based on Audited Financial Statements and other data
- Used by
- *Businesses contracting with providers*
 - *Consultants/Vendors*
 - *Health Planners*
 - *Hospitals*
 - *Health Plans*
 - *Health Services Researchers*

Includes Costs, Net Revenue, Profits, Charity Care, FTE's

VHI Consumer Publications



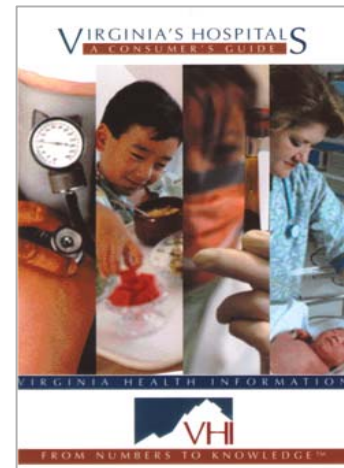
OB Guide



LTC

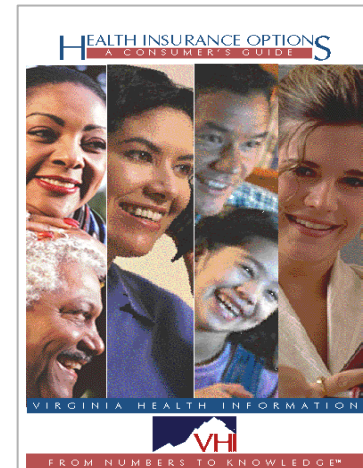


Cardiac Care Reports



Hospital Guide

Service Lines



HMO

Cardiac Care

Volume, Mortality, Readmissions

- Open process of development and refinement
- Developed by VHI and Health Services Researchers with provider input
- Severity adjusted to level the playing field
- Represents 1 in 7 hospital admissions





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- > Links
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- HMOs
- Hospitals
- Links
- Long Term Care
- Nursing Facilities
- Outpatient
- Physicians

Virginia Cardiac Reports - 2004

Click the red arrow ▼ to show/hide Service Line subcategory line data.

[Show Detailed View](#)

Cardiology Medical

Facility Name (click for all hospital information)	Service Line	Total Volume	Mort Rating	Readm Rating	
Bon Secours Maryview Medical Center	Cardiology Medical	1745	●	○	▼
Riverside Regional Medical Center	Cardiology Medical	1506	●	●	▼
Sentara Norfolk General Hospital	Cardiology Medical	1694	●	○	▼
Bon Secours DePaul Medical Center ✉	Cardiology Medical	966	●	●	▼
Chesapeake General Hospital	Cardiology Medical	1344	●	●	▼
Obici Hospital	Cardiology Medical	1052	●	●	▼
Sentara Bayside Hospital	Cardiology Medical	1133	●	●	▼
Sentara Careplex Hospital	Cardiology Medical	1388	○	●	▼
Sentara Leigh Hospital	Cardiology Medical	1062	●	○	▼
Sentara Virginia Beach General Hospital	Cardiology Medical	1373	●	○	▼
Sentara Williamsburg Community Hospital	Cardiology	800	●	○	▼



Internet

start



Virginia Health Inform...

Microsoft PowerPoint ...



9:38 AM

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- Acute Care Hospitals
- Ambulatory Surgical
- Psychiatric Hospitals
- Rehabilitation Hospitals
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Carilion Medical Center

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- General Info
- Financial
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- Cardiac

Hospital Service Line Report 2004 Acute Inpatient Discharges

Service Line	Inlier Cases	Outlier Cases	% of Hospital Total	% of Regional Total
Burns	23	0	0.07%	31.08%
Cardiology - Invasive	2,662	58	7.94%	42.09%
Cardiology - Medical	2,885	46	8.55%	15.85%
Cardiology - Open Heart Surgery	711	8	2.10%	50.46%
Dental	25	0	0.07%	23.36%
Dermatology	122	1	0.36%	23.52%
Endocrinology	770	12	2.28%	14.92%
ENT Surgery	76	1	0.22%	29.39%
Gastroenterology	2,345	35	6.95%	15.85%
General Medicine	1,259	21	3.74%	17.63%
General Surgery	2,273	41	6.75%	24.65%
Gynecological Surgery	825	12	2.44%	21.66%
Gynecology	48	0	0.14%	18.39%
Hematology	275	6	0.82%	19.72%
Infectious Disease	530	10	1.58%	16.38%
Neonatology	491	41	1.55%	35.75%
Nephrology	309	5	0.92%	16.12%
Neurological Surgery	552	21	1.67%	26.53%
Neurology	1,327	19	3.93%	19.53%
Normal Newborn	2,544	18	7.48%	23.22%
Obstetrics/Delivery	2,911	64	8.68%	24.19%
Oncology	659	10	1.95%	23.82%
Oncology Surgery	43	2	0.13%	31.91%
Ophthalmologic Surgery	7	0	0.02%	29.17%
Ophthalmology	18	0	0.05%	19.15%
Orthopedic Surgery	1,585	19	4.68%	21.49%
Orthopedics	365	5	1.08%	18.79%
Other	588	48	4.54%	22.84%

- VHI's Annual Industry Report additionally includes ratings of length of stay and charges



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OB/GYN

Cardiology

One publication that uses the quarterly patient level data is VHI's **OBSTETRICAL SERVICES: A CONSUMER'S GUIDE**. The **OB GUIDE** includes extensive information on obstetrical services available in Virginia hospitals as well as rates of cesarean delivery for hospitals and physicians. VHI is preparing to update the OB Guide during our 2007 fiscal year. If you are interested in participating on the task force or donating services, please download the [OB Flyer](#) in Adobe Acrobat format. Download the [OB/GYN Guide](#) in Adobe Acrobat Format. (1.82 Mb)

The information found in this searchable section of VHI's website was made available by the Virginia Board of Medicine on October 2, 2006. VHI lists board certified OB/GYNs and other physicians with a self-designated practice area of obstetrics and gynecology who hold a current active license and have reported a practice address in Virginia. For a complete listing of all physicians holding a Virginia license, please visit www.vahealthprovider.com.

Find an OB/GYN in your area.

Choose the region and identify the county(s) in which you are interested to view a list of physicians, their addresses, phone numbers and other information available.

Select Region

Central Virginia

Select Area(s)

All
Amelia
Brunswick
Buckingham
Charles City
Charlotte

*You can select more than one county
by holding the ctrl key down*

Display Physicians





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Outpatient Procedure Information

Laparoscopy



Background: A type of minimally invasive surgery in which a small incision (cut) is made in the abdomen and an instrument called a laparoscope is inserted to allow a doctor to see inside the abdomen and pelvis. An absorbable gas, typically, carbon dioxide is used to inflate the abdomen. Tubes can be pushed through the same incision in the skin. Probes or other instruments can then be introduced through the same opening. In this way, a number of surgical procedures can be performed without the need for a large surgical incision. Most patients receive general anesthesia during the procedure.

Advantages: The advantages of laparoscopy include a shorter post-operative period with less pain. Avoiding a large abdominal incision also decreases some of the post-op complications related to the heart and lungs. In addition, there is decreased mortality with some laparoscopic procedures, as compared to the old open surgical procedures.

Past and Current Use: Laparoscopy was long used by gynecologists for the diagnosis of diseases of the ovary and uterus. Removal of the gallbladder by laparoscopic techniques was introduced in the late 1980s. Fiberoptic instruments and video cameras now allow procedures on the smallest of structures and the use of [laparoscopy](#) has been extended to surgical procedures involving the appendix, colon, uterus, repair of hiatal hernias, and more. Laparoscopy comes from two Greek words. The first is lapara, which means "the soft parts of the body between the rib margins and hips," or, more simply, the "flank or loin." The other Greek root is skopein, which means "to see or view or examine." Skopein has become -scope in English.

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Choose Outpatient Procedure(s)

- ☐ Colonoscopy
- ☒ Laparoscopy – Inguinal Hernia
- ☐ Surgery of the Breast
- ☒ Hernia Repair
- ☐ Liposuction
- ☐ Facial Surgery
- ☐ Knee Arthroscopy

**You can select more than one county
by holding the ctrl key down*

Choose Procedure Facility Type(s)

- ☒ Physician's Office
- ☐ Ambulatory Surgical Center
- ☐ Hospital Outpatient Center



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Mock-up Data

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Find Outpatient Surgery Providers in Your Area

Laparoscopy - Inguinal Hernia

Performed at Physician's Office

Click on Physician's Name to see more information

Name	Address	City	Phone
Albemarle, Thomas	Center for Surgery 3311 Center St. Suite 100	Charles City	(804) 555-3366
Anderson, Jane	123 Henderson Ave	Charles City	(804) 555-1212
Aron, Robert	9855 Darbytown Rd	Charles City	(804) 555-9965
Bradford, William	Urosurgery Suites 531 Camden Ave	Charles City	(804) 555-3121
Crawley, Cynthia	411 Marketplace Ct	Charles City	(804) 555-1155
Johnson, Mark	6645 Applebee St	Charles City	(804) 555-9512
Jones, Martha	412 Main St. Suite 553	Charles City	(804) 555-4122
Lewis, Alexander	Commonwealth Laparoscopies 42122 Broad St	Charles City	(804) 555-7844

Charges, Cost, or Reimbursement?

Charges: In the health care world, hospitals, physicians and other providers often discount charges for larger purchasers and government programs. This is an oversimplified explanation but...

Charges – Discount = amount the insurer pays.

The insured consumer may pay ...

- an annual deductible (somewhere between \$0 and 5,000) and
- a co-pay (maybe \$5-40 or more for a visit to a doctor's office).
- Maybe \$100 or more for a flat rate for outpatient surgery plus 20% of the amount the insurer has negotiated. For hospitals, similar percentages, higher flat payment. All rates can vary by the program.

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Find Outpatient Surgery Providers in Your Area

Jane Anderson

Primary Practice Address

123 Henderson Ave
Charles City, VA 23233
(804) 555-1212

Outpatient Procedures Performed	Where Performed	# Performed 2005	Average Charges*
Laparoscopy - Inguinal Hernia	This Physician's Office	38	Min State Avg \$257  Max State Avg \$1039 \$780
Hernia Repair	1 hospital 1 surgical center	77	Click for detail on this physician's outpatient surgery at hospitals or ambulatory surgical centers



= Physician Average Office Charge

* Charges are for office surgery services and may not include laboratory, physician's professional fees and other charges. [Click for more on charges](#)

Education and Licensing

Medical School Attended - Louisiana State University School Of Medicine In New Orleans

Year Graduated - 1991

Year Virginia Medical License Received - 6/6/1991

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Community General Hospital

2100 Mountain Blvd
Chesapeake, VA 23744
(757) 555-1212
www.commgenhosp.com

Outpatient Procedures Performed

Procedure	# Performed 2005	Avg. Procedure Charges	Avg. Commercial Discount *
Laparoscopy - Inguinal Hernia	154	\$4,146	45%
Hernia Repair	293	\$5,432	45%

•Overall discount rate for all patient care paid for by commercial (non-government) insurance companies.

Charges are for hospital surgery services and may not include laboratory, physician's professional fees and other charges.

[Click for more on charges](#)

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Choose a Plan(s)

Aetna Health DC, MD and VA
CareFirst BlueChoice
CIGNA HealthCare Mid-Atlantic
CIGNA HealthCare of Va
HealthKeepers
Kaiser Permanente
M.D. IPA
Optima Health Plan
Optimum Choice
Peninsula Health Care
Priority Health Care
Southern Health Services
UnitedHealthcare Mid-Atlantic
UnitedHealthcare River Valley

Select more than one plan
by holding the ctrl key down

Compare

Choose a Measurement

Click on the ? to get more information about an individual measure.

Access/Availability of Care

- ☐ Adult Access To Preventive/Ambulatory Health Services ?
- ☐ Child Access to Primary Care Practitioners ?
- ☐ Prenatal and Postpartum Care ?

Effectiveness of Care

- ☐ Asthma Medication Management ?
- ☐ Attention-Deficit/Hyperactivity Disorder (ADHD) Medication ?
- ☐ Cardiovascular Disease Management ?
- ☐ Common Childhood Illnesses ?
- ☐ Diabetes Care and Management ?
- ☐ Drug Therapy in Rheumatoid Arthritis ?
- ☐ Immunizations ?
- ☐ Inappropriate Treatment ?
- ☐ Mental Health: Care and Follow-up ?
- ☐ Persistent Medications ?
- ☒ Preventive Care ?
- ☐ Spirometry Testing ?
- ☐ Use of Imaging for Low Back Pain ?



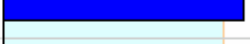
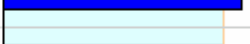
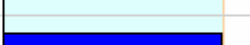
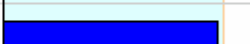
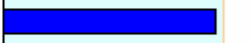

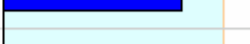
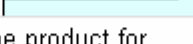
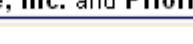
Health Plan Stability/Descriptive

- ☐ Board Certification Rates for Providers ?
- ☐ Provider Turnover Rates ?
- ☐ Years in Business ?

Member Satisfaction

- ☐ Member Satisfaction ?


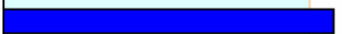

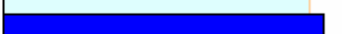

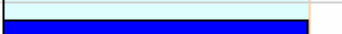

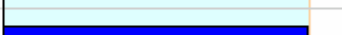
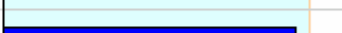
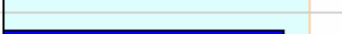
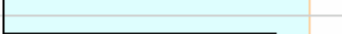
Other Data

Colorectal Cancer Screening ?		
Plan Name	State Average: 54.32% National Avg: 52.30% 90th Percentile: 63.50%	2005 Rate
Optima Health Plan		68.02%
CIGNA HealthCare Mid-Atlantic		60.10%
M.D. IPA		59.15%
HealthKeepers*		58.60%
CareFirst BlueChoice		53.77%
UnitedHealthcare Mid-Atlantic		53.77%
Kaiser Permanente		52.97%
Optimum Choice		52.51%
Aetna Health DC, MD and VA		51.55%
Southern Health Services		43.90%
UnitedHealthcare River Valley		43.19%
*Healthkeepers is the product for HealthKeepers, Inc, Peninsula Health Care, Inc. and Priority Health Care, Inc.		

Let us know what you like about this information or would like changed. Please click below.



[Tell us what you think!](#)

Members highly rating their overall health care (8 to 10 on a 0-10 scale) ?

Plan Name	State Average: 76.16% National Avg: 78.02% 90th Percentile: 83.37%	2005 Rate
Southern Health Services		83.29%
Optima Health Plan		81.49%
UnitedHealthcare River Valley		79.25%
CIGNA HealthCare Mid-Atlantic		79.25%
CareFirst BlueChoice		77.81%
Optimum Choice		76.10%
HealthKeepers*		75.78%
Aetna Health DC, MD and VA		75.43%
UnitedHealthcare Mid-Atlantic		72.69%
M.D. IPA		69.32%
Kaiser Permanente		67.30%

*Healthkeepers is the product for
HealthKeepers, Inc, Peninsula Health Care, Inc. and Priority Health Care, Inc.

Members highly rating their personal doctor or nurse (8 to 10 on a 0-10 scale) ?

Plan Name	State Average: 76.38% National Avg: 77.19% 90th Percentile: 81.37%	2005 Rate
Optima Health Plan		79.46%
...		75.00%



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Finding a Long-Term Care Provider is Just a Point and Click Away.

Choose the region, identify the county(s) in which you are interested, and the type(s) of provider to view a list of providers, their addresses, phone numbers, and other information that meet your specifications.

Select Region

Central Virginia

Select County

All
Amelia
Brunswick
Buckingham
Charles City
Charlotte

Select Facility Type

- ☐ Home Care & Community Services
- ☐ Adult Day Care Centers
- ☐ Continuing Care Retirement Communities
- ☐ Assisted Living Facilities
- ☐ Nursing Facilities

**You can select more than
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Beaufont Healthcare Center

200 Hioaks Rd
Richmond,VA 23225

[Get Map](#)

Phone: (804) 272-2918

Semi-Private Daily Room Rate: \$153.00

Private Daily Room Rate: \$157.00

Go to [Medicare's Nursing Home Quality Compare](#)

Let us know what you like about this information or would like changed. Please click below.

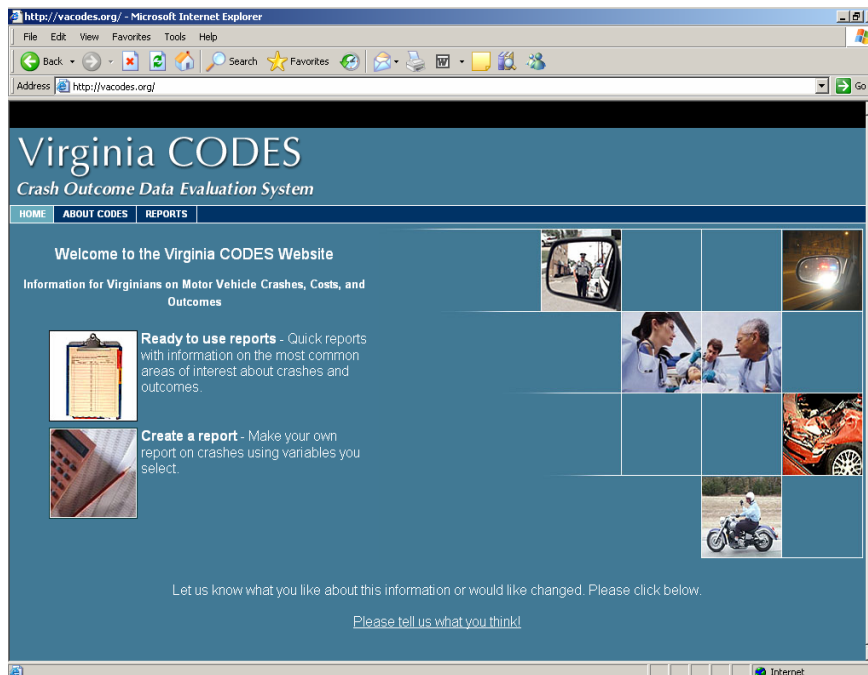
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1108 E. Main Street Suite 1201
Richmond, VA 23219

Phone (804) 643-5573 Fax (804) 643-5375
Toll Free 1-877-VHI-INFO (844-4636)

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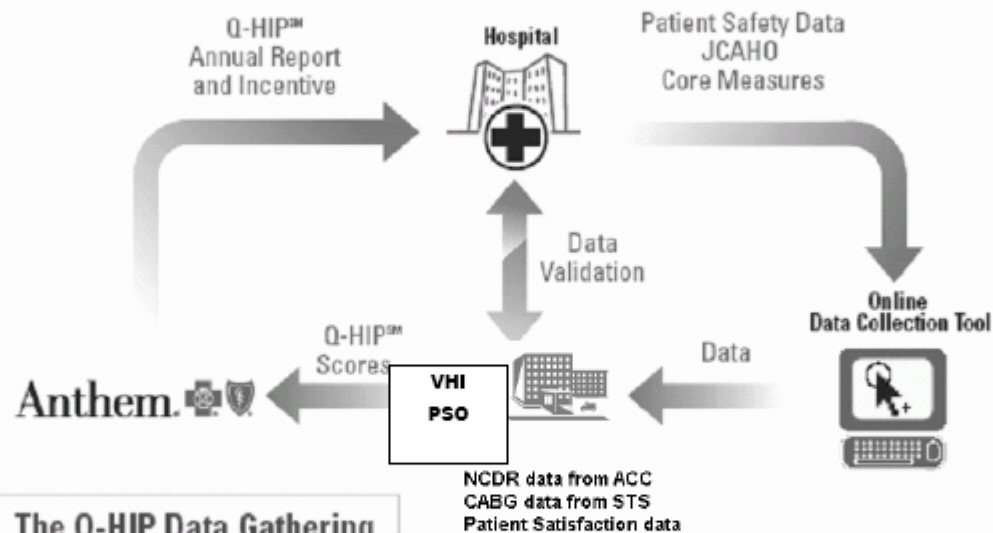
CODES: Using Data to Reduce Motor Vehicle Deaths and Injuries



Information available at www.vacodes.org
under an agreement with DMV

- **CODES** : combines car crash data, rescue information, trauma, vital records and hospital data
- **Purpose:** produce crash outcomes information for public policy, public education and state initiatives on highway safety
- **Applications:** compare injury severity, mortality, hospital charges by age group, use of safety restraints, motorcycle helmets, location, alcohol and drug use, driver distractions, speed, etc.

Q-HIPSM- A Collaborative Effort



2007 Up and Coming Initiatives

- Pursue effort with stakeholders in revising www.vhi.org to serve as *health information portal* to health information from other stakeholders
- Update/Expand Consumer Guide to Obstetrical Care
- Publish Outpatient Surgical Information
- Update/Expand Long-term Care Consumer Guide
- Expand Cardiac Care information
- Test AHRQ Quality Indicators for public reporting
- Research Top Surgical Procedures for Public Reporting
- Feasibility of Reporting Prices for Medications

Summary

- Consumer demand for health information is increasing- reasons include more informed public and increased cost burden (higher premiums, deductibles, and copays)
- VHI has consumer health information on HMOs, hospitals, long term care providers, physicians. Information used across the Commonwealth
- VHI develops information collaboratively and partners with others to extend value, reach of information and reduce costs